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10/579,688	05/18/2006	Gerald P. Downey	2504.3006.004	9595
23399 7590 05/12/2009 REISING, ETHINGTON, BARNES, KISSELLE, P.C. P O BOX 4390			EXAMINER	
			REESE, DAVID C	
TROY, MI 480	99-4390		ART UNIT	PAPER NUMBER
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)
	10/579,688	DOWNEY, GERALD P.
Office Action Summary	Examiner	Art Unit
	David C. Reese	3677
The MAILING DATE of this communication ap Period for Reply	opears on the cover sheet with the	correspondence address
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING I - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the mailine earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATIO .136(a). In no event, however, may a reply be tind d will apply and will expire SIX (6) MONTHS from te, cause the application to become ABANDONE	N. mely filed the mailing date of this communication. ED (35 U.S.C. § 133).
Status		
Responsive to communication(s) filed on 18 in 2a) This action is FINAL . Since this application is in condition for allowed closed in accordance with the practice under	is action is non-final. ance except for formal matters, pr	
Disposition of Claims		
4) Claim(s) 1-39 is/are pending in the application 4a) Of the above claim(s) is/are withdra 5) Claim(s) is/are allowed. 6) Claim(s) 1-10,13-22,26-35,38 and 39 is/are re 7) Claim(s) 11,12,24,25,36 and 37 is/are objecte 8) Claim(s) are subject to restriction and/ Application Papers 9) The specification is objected to by the Examin 10) The drawing(s) filed on is/are: a) accompanies applicant may not request that any objection to the	ejected. ed to. for election requirement. eer. eepted or b) objected to by the edrawing(s) be held in abeyance.	e 37 CFR 1.85(a).
Replacement drawing sheet(s) including the corre- 11) The oath or declaration is objected to by the E	· · · · · · · · · · · · · · · · · · ·	•
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreig a) All b) Some * c) None of: 1. Certified copies of the priority documer 2. Certified copies of the priority documer 3. Copies of the certified copies of the priority application from the International Burea * See the attached detailed Office action for a list	nts have been received. nts have been received in Applicat ority documents have been receiv au (PCT Rule 17.2(a)).	ion No ed in this National Stage
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal R 6) Other:	ate

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DETAILED ACTION

Status of Claims

Claims 1-39 are pending.

Claim Rejections - 35 USC § 102

[1] The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- [2] Claims 1-9, 13-22, 26-34, and 38-39 are rejected under 35 U.S.C. 102(b) as anticipated by Brilmyer, US-5,580,201, because the invention was patented or described in a printed publication in this or a foreign country, or in public use or on sale in this country more than one (1) year prior to the application for patent in the United States.

As for Claim 1, Brilmyer discloses of a fastener assembly (see figures 1-4) adapted for providing adjustment between at least two members, said fastener assembly including:

a bolt (11, 41) having a head, a shank axially extending from said head, and a circumferentially uninterrupted threaded portion (20, 52) axially extending from said shank;

a first cam washer (10, 46) fixed against rotation to said shank of said bolt adjacent said head of said bolt; and

a second cam washer (22, 54) fixed against rotation to said shank of said bolt adjacent said threaded portion (20, 52) of said bolt.

Re: Claim 2, further including a nut (26) adapted for attachment to said threaded portion of said bolt.

Re: Claim 3, wherein said nut (26) includes a threaded portion (30) and a skirt portion (31) extending from said threaded portion, said threaded portion adapted for threading to said threaded portion (20, 52) of said bolt after said second cam washer (22, 54) is at least partially fixed to said shank, thereby preventing the possibility of said second cam washer becoming misassembled to said bolt between said shank and said nut.

Re: Claim 4, wherein said skirt portion (31) of said nut (26) has a length equal to the length of said threaded portion of said bolt minus the thickness of said second cam washer, plus two times the thread pitch of said threaded portion of said bolt.

Re: Claim 5, wherein said threaded portion (20, 52) of said bolt is circumferentially uninterrupted over substantially the entire length of said threaded portion.

Re: Claim 6, wherein said threaded portion (20, 52) does not include any axially-extending circumferential interruptions.

Re: Claim 7, wherein said shank of said bolt includes at least one key feature (18) and said second cam washer (22) includes an aperture adapted for freely passing over said threaded portion of said bolt and further includes at least one key feature corresponding to said at least one key feature of said bolt, thereby fixing said second cam washer to said shank of said bolt against rotation with respect thereto.

Re: Claim 8, wherein said at least one key feature (18) of said bolt is integrally formed into said shank of said bolt during production of said bolt.

Re: Claim 9, wherein said at least one key feature (18) of said bolt includes at least one flat and said aperture of said second cam washer (22, 54) is defined by at least one corresponding flat.

Re: Claim 13, wherein said at least one key feature (18) of said bolt extends axially from said threaded portion for a length adapted to accommodate a variety of widths of said at least two members.

Re: Claim 14, wherein said threaded portion (20, 52) of said bolt is diametrically smaller than said shank of said bolt to facilitate said second cam washer to pass freely thereover and engage said at least one key feature of said shank.

Re: Claim 15, wherein said first cam washer (10, 46) is splined (via 48) to said bolt.

As for claim 16, Brilmyer discloses of a bolt assembly adapted for providing adjustment between at least two members of an automotive suspension linkage, said cam bolt assembly including:

a bolt (11, 41) having a head, an enlarged diameter portion axially adjacent said head, a shank extending axially from said enlarged diameter portion, and a substantially uninterrupted threaded portion (20, 52) extending axially from said shank, said shank having at least one key feature (18);

- a first cam washer (10, 46) mounted to said enlarged diameter portion of said bolt;
- a second cam washer (22, 52) mounted to said shank of said bolt in engagement with said at least one key feature (18), said second cam washer having an aperture therethrough that

substantially corresponds in shape to said at least one key feature of said shank; and a nut (26) adapted for attachment to said threaded portion of said bolt, said nut including a threaded portion (30) and a skirt portion (31) extending from said threaded portion, said threaded portion being adapted for threading to said threaded portion of said bolt after said second cam washer is at least partially engaged with said at least one key feature, thereby preventing the possibility of said second cam washer becoming misassembled to said bolt between said shank and said nut.

Re: Claim 17, wherein said at least one key feature (18) on said bolt and said aperture in said second cam washer (22, 54) are such that said second cam washer can be assembled to said bolt at only one angular orientation of said second cam washer to said bolt.

Re: Claim 18, wherein said skirt portion (31) of said nut has a length equal to the length of said threaded portion of said bolt minus the thickness of said second cam washer, plus two times the thread pitch of said threaded portion of said bolt.

Re: Claim 19, wherein said threaded portion (20, 52) of said bolt is circumferentially uninterrupted over substantially the entire length of said threaded portion.

Re: Claim 20, wherein said threaded portion (20, 52) does not include any axially-extending circumferential interruptions such as grooves or flats.

Re: Claim 21, wherein said at least one key feature (18) of said bolt is integrally formed into said shank of said bolt during cold forming of said bolt.

Re: Claim 22, wherein said at least one key feature of said bolt includes at least one flat (18) and said aperture of said second cam washer (22, 54) is defined by at least one corresponding flat.

Re: Claim 26, wherein said at least one key feature (18) of said bolt extends axially from said threaded portion for a length adapted to accommodate a variety of widths of said at least two members.

Re: Claim 27, wherein said threaded portion (20, 52) of said bolt is diametrically smaller than said shank of said bolt to facilitate said second cam washer to pass freely thereover and engage said at least one key feature of said shank.

As for claim 28, Brilmyer discloses of an automotive suspension linkage including:

- a first member;
- a second member linked to said first member; and
- a cam bolt assembly linking said first and second members, said cam bolt assembly including:

a bolt (11, 41) having a head, an enlarged diameter portion axially adjacent said head, a shank extending axially from said enlarged diameter portion, and a substantially uninterrupted threaded portion extending axially from said shank, said shank having at least one key feature (18);

- a first cam washer (10, 46) mounted to said enlarged diameter portion of said bolt;
- a second cam washer (22, 54) mounted to said shank of said bolt in engagement with said at least one key feature (18), said second cam washer having an aperture therethrough that substantially corresponds in shape to said at least one key feature of said shank; and a nut adapted for attachment to said threaded portion of said bolt.

Re: Claim 29, wherein said nut (26) includes a threaded portion (30) and a skirt portion (31) extending from said threaded portion, laid threaded portion adapted for threading to said

threaded portion of said bolt after said second cam washer is at least partially engaged with said at least one key feature, thereby preventing the possibility of said second cam washer becoming misassembled to said bolt between said shank and said nut.

Re: Claim 30, wherein said skirt portion (31) of said nut has a length equal to the length of said threaded portion of said bolt minus the thickness of said second cam washer, plus two times the thread pitch of said threaded portion of said bolt.

Re: Claim 31, wherein said threaded portion (20, 52) of said bolt is circumferentially uninterrupted over substantially the entire length of said threaded portion.

Re: Claim 32, wherein said threaded portion (20, 52) does not include any axially-extending circumferential interruptions such as grooves, or fiats.

Re: Claim 33, wherein said at least one key feature (18) of said bolt is integrally formed into said shank of said bolt during cold forming of said bolt.

Re: Claim 34, wherein said at least one key feature (18) of said bolt includes at least one fiat and said aperture of said second cam washer is defined by at least one corresponding fiat.

Re: Claim 38, wherein said at least one key feature (18) of said bolt extends axially from said threaded portion (20, 52) for a length adapted to accommodate a variety of widths of said first and second members.

Re: Claim 39, wherein said threaded portion (20, 52) of said bolt is diametrically smaller than said shank of said bolt to facilitate said second cam washer to pass freely thereover and engage said at least one key feature of said shank.

[3] Claims 1-10, 14-17, 21-23, 27-29, 33-35, and 39 are rejected under 35 U.S.C. 102(e(1)) as anticipated by Genick, II, US-7,370,868.

As for Claim 1, Genick discloses of a fastener assembly (see figures 4) adapted for providing adjustment between at least two members, said fastener assembly including:

a bolt (52) having a head, a shank axially extending from said head, and a circumferentially uninterrupted threaded portion (50) axially extending from said shank;

a first cam washer (32) fixed against rotation to said shank of said bolt adjacent said head of said bolt; and

a second cam washer (32) fixed against rotation to said shank of said bolt adjacent said threaded portion (50) of said bolt.

Re: Claim 2, further including a nut (18) adapted for attachment to said threaded portion of said bolt.

Re: Claim 7, wherein said shank of said bolt includes at least one key feature (56) and said second cam washer (32) includes an aperture adapted for freely passing over said threaded portion of said bolt and further includes at least one key feature corresponding to said at least one key feature of said bolt, thereby fixing said second cam washer to said shank of said bolt against rotation with respect thereto.

Re: Claim 8, wherein said at least one key feature (56) of said bolt is integrally formed into said shank of said bolt during production of said bolt.

Re: Claim 9, wherein said at least one key feature (56) of said bolt includes at least one fiat and said aperture of said second cam washer (32) is defined by at least one corresponding fiat.

Re: Claim 10, wherein said at least one flat includes at least two adjacent flats (see 59 in fig. 7).

Re: Claim 14, wherein said threaded portion (50) of said bolt is diametrically smaller than said shank of said bolt to facilitate said second cam washer to pass freely thereover and engage said at least one key feature of said shank.

Re: Claim 15, wherein said first cam washer (32) is splined (via 26) to said bolt.

As for claim 16, Genick discloses of a bolt assembly adapted for providing adjustment between at least two members of an automotive suspension linkage, said cam bolt assembly including:

a bolt (52) having a head, an enlarged diameter portion axially adjacent said head, a shank extending axially from said enlarged diameter portion, and a substantially uninterrupted threaded portion (50) extending axially from said shank, said shank having at least one key feature (18);

a first cam washer (32) mounted to said enlarged diameter portion of said bolt;

a second cam washer (32) mounted to said shank of said bolt in engagement with said at least one key feature (56), said second cam washer having an aperture therethrough that substantially corresponds in shape to said at least one key feature of said shank; and a nut (18) adapted for attachment to said threaded portion of said bolt, said nut including a threaded portion and a skirt portion extending from said threaded portion, said threaded portion being adapted for threading to said threaded portion of said bolt after said second cam washer is at least partially engaged with said at least one key feature, thereby preventing the possibility of said second cam washer becoming misassembled to said bolt between said shank and said nut.

Re: Claim 17, wherein said at least one key feature (56) on said bolt and said aperture in said second cam washer (32) are such that said second cam washer can be assembled to said bolt at only one angular orientation of said second cam washer to said bolt.

Re: Claim 21, wherein said at least one key feature (56) of said bolt is integrally formed into said shank of said bolt during cold forming of said bolt.

Re: Claim 22, wherein said at least one key feature of said bolt includes at least one flat (56) and said aperture of said second cam washer (32) is defined by at least one corresponding flat.

Re: Claim 23, wherein said at least one flat includes at least two adjacent flats (59, see fig. 7).

Re: Claim 27, wherein said threaded portion (50) of said bolt is diametrically smaller than said shank of said bolt to facilitate said second cam washer to pass freely thereover and engage said at least one key feature of said shank.

As for claim 28, Genick discloses of an automotive suspension linkage including:

- a first member;
- a second member linked to said first member; and
- a cam bolt assembly linking said first and second members, said cam bolt assembly including:
- a bolt (52) having a head, an enlarged diameter portion axially adjacent said head, a shank extending axially from said enlarged diameter portion, and a substantially uninterrupted threaded portion extending axially from said shank, said shank having at least one key feature (18);

a first cam washer (32) mounted to said enlarged diameter portion of said bolt;

a second cam washer (32) mounted to said shank of said bolt in engagement with said at least one key feature (56), said second cam washer having an aperture therethrough that substantially corresponds in shape to said at least one key feature of said shank; and a nut adapted for attachment to said threaded portion of said bolt.

Re: Claim 33, wherein said at least one key feature (56) of said bolt is integrally formed into said shank of said bolt during cold forming of said bolt.

Re: Claim 34, wherein said at least one key feature (56) of said bolt includes at least one fiat and said aperture of said second cam washer is defined by at least one corresponding fiat.

Re: Claim 35 wherein said at least one fiat includes at least two adjacent flats (see 59 in fig. 7).

Re: Claim 39, wherein said threaded portion (50) of said bolt is diametrically smaller than said shank of said bolt to facilitate said second cam washer to pass freely thereover and engage said at least one key feature of said shank.

Allowable Subject Matter

[4] Claims 11-12, 24-25, and 36-37 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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Conclusion

[5] The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

The following patents are cited further to show the state of the art with respect to this particular type of fastener: please see submitted notice of reference cited.

[6] Any inquiry concerning this communication or earlier communications from the examiner should be directed to David C. Reese whose telephone number is (571) 272-7082. The examiner can normally be reached on 7:30 am-6:00 pm Monday-Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Victor Batson can be reached at (571) 272-6987. The fax number for the organization where this application or proceeding is assigned is the following: (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

David Reese

/D. C. R./ Examiner, Art Unit 3677

/Victor Batson/ Supervisory Patent Examiner, Art Unit 3677